

WHAT IS CLAIMED IS:

1. Multiple wire cable connector comprising
 - 5 - an outer housing (12) having at least one opening (38) for a multiple wire cable (32) to pass therethrough,
 - at least one inner housing (18) for arranging therein termination sockets (28) for the wires of the multiple wire cable (32), the inner housing (28) comprising (i) a front end for contacting a device to be electrically connected to the wires of the multiple wire cable (32),
10 and (ii) a receiving end (26) for receiving the wires of the multiple wire cable (32),
 - wherein the inner housing (18) comprises a circumferential wall (20) extending between the front and receiving ends (22,26) of the inner housing (18), and
15 - at least one cover (40) for covering the receiving end (26) of the inner housing(s) (18),
 - wherein the cover (40) and the circumferential wall (20) of the inner housing (18) both comprise electrically conductive material, and
20 - wherein the outer housing (12) comprises at least one receiving opening (54) in which the at least one of the inner housing (18) is arranged.
2. Multiple wire cable connector according to claim 1, wherein the inner
25 housings (18) are movably arranged within the receiving opening (54) of the outer housing (12).
3. Multiple wire cable connector according to claim 2, wherein the inner
30 housings (18) are located within the receiving opening (54) of the outer housing (12) with a play for allowing tilting movements of the inner housings (18) within the receiving openings (54).

4. Multiple wire cable connector according to claim 2, wherein the inner housing (18) is pivotable around a pivot axis parallel to the plane of the receiving opening (54).
- 5 5. Multiple wire cable connector according to claim 2, wherein the inner housing (18) is pivotable with respect to pivot axis orthogonal to each other and parallel to the plane of the receiving opening (54).
- 10 6. Multiple wire cable connector according to any one of claims 1 to 5, wherein at least one resilient means (60) is arranged between the at least one of the inner housings (18) and outer housing (12) to bias the respective inner housing (18) in a direction out of the receiving opening (54) of the outer housing (12).
- 15 7. Multiple wire cable connector according to claim 6, wherein the resilient means (60) is a helical spring element, a beam-like spring element or an element comprising compressible material.
- 20 8. Multiple wire cable connector according to claim 6 or 7, wherein the resilient means (60) on the one hand is operatively connected to the outer housing (12) and on the other hand is operatively connected to the respective inner housing (18).
- 25 9. Multiple wire cable connector according to any one of claims 1 to 8, wherein at least one electromagnetic shielding gasket is provided for each inner housing (18).
- 30 10. Multiple wire cable connector according to any one of claims 1 to 9, wherein the outer housing (12) comprises an electrically conductive material.

11. Multiple wire cable connector according to claim 9 or 10, wherein the cover (40) is in direct contact with the circumferential wall (22) of the inner housing (18).
- 5 12. Multiple wire cable connector according to any one of claims 1 to 11, wherein the cover (40) is provided with openings for the wires of the multiple wire cable (32).
- 10 13. Multiple wire cable connector according to claim 12, wherein the cover comprise at least two engaging cover sections (41,42) each having an edge (46,48) with recesses (50,52) therein such that when the at least two cover sections (41,42) are engaged together, the recesses (50,52) form the openings in the cover (40).
- 15 14. Multiple wire cable connector according to claim 13, wherein the edges of the at least two cover sections (41,42) overlap when engaged with each other.
- 20 15. Multiple wire cable connector according to claims 1 to 12, wherein each inner housing (18) comprises contact elements (34) for connection to the wires of the multiple wire cable (32).
- 25 16. Multiple wire cable connector according to claim 10, wherein the contact elements (34) of at least one inner housing (18) by conducting lines (74) are electrically connected to at least one additional connector element (68) located outside of the outer housing (12).
- 30 17. Multiple wire cable connector according to claim 16, wherein the conducting lines (74) are in the form of a flexible circuit or a ribbon cable.
18. Multiple wire cable connector according to claim 16 or 17, wherein each conducting line (74) extends through at least one opening (78) in the

wall (20) of the inner housing (18) and wherein the opening (78) is provided with an electromagnetic shielding gasket (80).

- 5 19. Multiple wire cable connector according to any one of claims 1 to 18, wherein the outer housing (12) is provided with at least two inner housings (18).